

Mineral Industry Surveys

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MANGANESE IN DECEMBER 2007

Preliminary data (gross weight) for December 2007 indicate that consumption of manganese ore containing 35% or more manganese, exclusive of that consumed at iron and steel plants, was 16,600 metric tons (t), according to the U.S. Geological Survey. This was a decrease of 29% from the revised amount of 23,500 t in November 2007. Corresponding industry stocks of ore at the end of the month were 116,000 t, which was a 12% increase from the revised amount of 104,000 t at the end of November 2007. These data include estimates for annual respondents on the basis of 2006 data.

Domestic consumption of manganese ore during the fourth quarter of 2007 was 69,300 t, which was a 58% increase from the revised amount (44,000 t) consumed during the third quarter of 2007, and a 13% decrease from that of the fourth quarter of 2006. Domestic consumption during the 2007 was 279,000 t, which was 18% lower than that in 2006.

U.S. trade data for November 2007 are published in this issue.

Ferroalloy Prices, manganese content

	High-carbon ferromanganese ¹ (dollars per gross ton)	Medium-carbon ferromanganese ¹ (cents per pound)	Silicomanganese ¹ (cents per pound)	Manganese metal ² (cents per pound)
December 6	1,850.00-1,920.00	155.00-170.00	81.00-83.00	190.00-200.00
December 13	1,875.00-1,950.00	155.00-170.00	81.00-83.00	190.00-200.00
December 20	1,875.00-1,950.00	155.00-170.00	81.00-83.00	190.00-200.00
December 27	1,875.00-1,950.00	155.00-170.00	81.00-83.00	190.00-200.00

Ore Prices, dollars per metric ton unit, manganese content³

	44% Manganese Ore ²	48% Manganese Ore ²
December 6	9.50-10.00	11.50-12.00
December 13	9.50-10.00	11.50-12.00
December 20	9.50-10.00	11.50-12.00
December 27	9.50-10.00	11.50-12.00

¹Source: Platts Metals Week, dealer import price.

²Source: Ryan's Notes, North American transaction price.

³To determine dollars per metric ton, multiply the manganese content percentage by the price.

TABLE 1
SELECTED U.S. FOREIGN TRADE IN MANGANESE¹

(Metric tons, manganese content)²

	Imports for consumption			Exports		
	Ore and dioxide	Ferroalloy and metal	Total	Ore	Ferroalloy and metal	Total
2006:						
November	30,500	52,400	82,800	133	606	739
January-November	259,000	524,000	784,000	984	20,600	21,600
2007:						
January	24,500	40,300	64,800	77	1,180	1,250
February	48,500	35,700	84,200	144	7,350	7,500
March	20,300	36,000	56,400	29	694	724
April	15,600	44,800	60,400	57	1,030	1,090
May	37,200	66,500	104,000	93	6,110	6,200
June	26,000	47,200	73,300	163	4,250	4,410
July	25,600	30,000	55,700	93	1,830	1,930
August	44,300	66,100	110,000	95	836	931
September	3,520	48,900	52,500	141	692	833
October	40,600	37,100	77,700	7,290	3,510	10,800
November	18,300	48,000	66,300	3,060	392	3,450
Total	305,000	501,000	805,000	11,200	27,900	39,100

¹Data rounded to no more than three significant digits; may not add to totals shown.

²As reported except as estimated for imports of manganese dioxide and manganese waste and scrap and for exports from gross weights.

Source: U.S. Census Bureau.

TABLE 2
U.S. IMPORTS FOR CONSUMPTION OF SILICOMANGANESE IN NOVEMBER 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Australia	6,020	4,000	\$8,980,000	34,700	23,500	\$37,700,000
Canada	435	308	514,000	912	652	866,000
China	--	--	--	34	33	115,000
Georgia	11,600	7,620	17,700,000	50,100	35,800	64,400,000
Korea, Republic of	200	132	335,000	5,930	3,860	7,890,000
Macedonia	--	--	--	24,900	16,600	29,200,000
Mexico	1,370	905	1,180,000	14,400	9,430	11,500,000
Morocco	--	--	--	20	20	6,000
Netherlands	--	--	--	21	13	24,400
Norway	2,240	1,370	3,360,000	49,500	30,900	63,200,000
Romania	--	--	--	21,100	14,800	22,700,000
Russia	--	--	--	5,530	3,890	7,670,000
Saudi Arabia	--	--	--	3,540	2,250	3,350,000
South Africa	15,400	10,300	22,600,000	151,000	100,000	159,000,000
Spain	--	--	--	1,500	992	2,430,000
Total	37,200	24,600	54,600,000	363,000	243,000	410,000,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 3
U.S. IMPORTS FOR CONSUMPTION OF FERROMANGANESE IN NOVEMBER 2007¹

(Metric tons)

Source	Gross weight	Mn content	Customs value ²	Year to date		
				Gross weight	Mn content	Customs value ²
Low carbon:						
China	1,280	1,140	\$3,280,000	29,100	24,400	\$49,500,000
Japan	--	--	--	1,100	935	1,400,000
Korea, Republic of	--	--	--	2,200	1,760	2,850,000
Mexico	--	--	--	5,860	4,770	6,780,000
Norway	594	478	1,550,000	1,130	910	2,430,000
Russia	--	--	--	60	50	189,000
South Africa	--	--	--	5,400	4,410	4,990,000
Total	1,870	1,620	4,840,000	44,800	37,200	68,100,000
Medium carbon, 1%-2% C:						
China	--	--	--	10,600	8,530	10,300,000
Japan	--	--	--	1,700	1,450	1,990,000
Korea, Republic of	--	--	--	3,800	3,070	4,090,000
Mexico	2,520	2,020	2,850,000	8,150	6,530	8,130,000
Norway	--	--	--	191	156	317,000
South Africa	1,270	1,040	2,240,000	21,000	17,000	28,000,000
Spain	--	--	--	60	48	107,000
Turkey	--	--	--	40	38	75,900
Total	3,790	3,060	5,100,000	45,500	36,800	53,000,000
High carbon:						
Australia	1,900	1,450	2,340,000	3,410	2,500	3,880,000
Brazil	--	--	--	1,720	1,340	1,300,000
China	1,000	778	1,300,000	30,000	22,800	27,600,000
Egypt	--	--	--	1,470	1,100	1,440,000
France	--	--	--	1,300	1,050	970,000
Georgia	--	--	--	2,010	1,580	1,910,000
India	--	--	--	1,950	1,490	2,300,000
Mexico	350	279	384,000	370	295	414,000
Poland	--	--	--	778	595	1,090,000
Romania	--	--	--	191	149	248,000
Saudi Arabia	--	--	--	2,040	1,290	1,470,000
South Africa	12,300	9,440	16,500,000	141,000	109,000	134,000,000
Spain	--	--	--	3,250	2,490	4,870,000
Ukraine	5,010	3,870	7,290,000	5,010	3,870	7,290,000
Venezuela	--	--	--	1,540	1,090	1,550,000
Total	20,600	15,800	27,900,000	196,000	150,000	190,000,000
Grand total	26,200	20,500	37,800,000	286,000	224,000	311,000,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 4
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE ORE (20% OR MORE Mn) IN NOVEMBER 2007^{1, 2}

(Metric tons)

Source	Gross weight	Mn content	Customs value ³	Year to date		
				Gross weight	Mn content	Customs value ³
More than 20%, but less than 47% manganese:						
Australia	--	--	--	27,500	12,500	\$2,940,000
Canada	--	--	--	24,500	5,380	1,000,000
China	--	--	--	31,500	7,830	1,060,000
Gabon	--	--	--	46,600	20,300	3,860,000
India	3	1	\$4,630	3	1	4,630
Mexico	--	--	--	3,110	1,120	367,000
South Africa	--	--	--	60,400	26,900	4,370,000
Total	3	1	4,630	194,000	74,000	13,600,000
47% or more manganese:						
Australia	--	--	--	43,000	22,500	6,300,000
Belgium	64	42	25,800	64	42	25,800
Brazil	4,460	2,350	1,200,000	33,500	17,000	3,590,000
China	--	--	--	4,610	2,660	547,000
Gabon	25,400	13,900	2,750,000	249,000	143,000	25,800,000
Mexico	--	--	--	3,040	1,520	183,000
South Africa	--	--	--	54,200	26,700	5,230,000
Total	29,900	16,300	3,980,000	387,000	213,000	41,700,000
Grand total	29,900	16,300	3,990,000	581,000	287,000	55,300,000

-- Zero.

¹Quantities for general imports and imports for consumption are identical.

²Data rounded to no more than three significant digits; may not add to totals shown.

³Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other changes incurred in bringing the material into the United States.

Source: U.S. Census Bureau.

TABLE 5
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE DIOXIDE IN NOVEMBER 2007

(Metric tons, gross weight)

Source	Quantity	Customs value ²	Year to date	
			Quantity	Customs value ²
Australia	2,590	\$3,340,000	16,000	\$21,300,000
Belgium	55	139,000	350	873,000
Brazil	--	--	109	163,000
China	606	683,000	8,760	9,210,000
Colombia	--	--	59	47,400
Germany	7	12,500	80	162,000
India	5	13,000	5	13,000
Japan	89	112,000	3,430	4,700,000
Mexico	--	--	347	577,000
Singapore	14	23,900	82	118,000
South Africa	--	--	18	58,300
United Kingdom	--	--	(3)	7,070
Total	3,360	4,320,000	29,300	37,200,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other changes incurred in bringing the material into the United States.

³Less than ½ unit.

Source: U.S. Census Bureau.

TABLE 6
U.S. IMPORTS FOR CONSUMPTION OF MANGANESE METAL IN NOVEMBER 2007¹

(Metric tons)

Source	Gross weight	Customs value ²	Year to date	
			Gross weight	Customs value ²
Unwrought flake:				
China	1,980	\$5,730,000	20,200	\$51,400,000
Hong Kong	40	135,000	220	752,000
South Africa	95	230,000	1,370	2,780,000
Total	2,120	6,100,000	21,800	54,900,000
Unwrought powder:				
China	58	187,000	1,840	5,170,000
South Africa	276	548,000	3,920	7,180,000
Total	334	735,000	5,750	12,400,000
Unwrought, other:				
China	173	433,000	2,460	6,100,000
Germany	152	504,000	1,200	3,910,000
Russia	--	--	31	171,000
Spain	17	30,300	181	380,000
United Kingdom	--	--	98	427,000
Total	342	967,000	3,970	11,000,000
Other manganese, wrought:				
Canada	3	21,400	6	40,700
China	--	--	372	914,000
France	--	--	36	529,000
Japan	--	--	(3)	2,100
Mexico	61	280,000	399	1,770,000
Spain	--	--	50	127,000
Taiwan	--	--	1	14,300
United Kingdom	(3)	3,300	75	388,000
Total	64	305,000	938	3,790,000
Grand total	2,860	8,110,000	32,500	82,000,000

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Customs value generally represents a value in the foreign country and therefore excludes U.S. import duties, freight, insurance, and other changes incurred in bringing the material into the United States.

³Less than ½ unit.

Note: Imports for consumption of metallic waste and scrap totaled 45 metric tons, all of which was from Canada, to give a year-to-date total of 1,100 metric tons.

Source: U.S. Census Bureau.

TABLE 7
U.S. EXPORTS OF MANGANESE ORE (20% OR MORE Mn), FERROMANGANESE, SILICOMANGANESE,
AND MANGANESE METAL BY COUNTRIES OF DESTINATION IN NOVEMBER 2007¹

(Metric tons, gross weight)

Country	Manganese ore		Ferromanganese, 2% or less C		Silicomanganese		Manganese metal ²	
	November	Year to date	November	Year to date	November	Year to date	November	Year to date
Argentina	--	--	--	--	--	--	--	6
Australia	--	--	--	--	--	3	--	8
Belgium	--	8	--	--	--	--	37	615
Brazil	--	--	--	--	4	21	--	1
Canada	64	1,050	29	2,940	24	2,890	--	164
Chile	--	--	--	--	--	--	--	8
China	6,050	20,500	--	--	--	--	--	235
Colombia	--	--	--	--	--	--	--	138
Dominican Republic	--	--	--	--	--	32	--	--
France	--	--	--	--	--	--	--	5
Germany	--	469	--	--	--	--	--	158
Hong Kong	--	65	--	--	--	--	95	449
India	--	--	--	--	--	--	4	196
Ireland	--	--	--	29	--	--	--	--
Israel	--	--	--	--	--	--	--	8
Jamaica	--	--	--	--	--	--	--	(3)
Japan	--	--	--	5	--	--	73	614
Korea, Republic of	--	94	--	--	--	--	--	3
Malaysia	--	5	--	--	--	--	--	11
Mexico	--	50	28	1,640	18	283	--	64
Poland	--	18	--	--	--	--	--	--
Saudi Arabia	--	--	--	943	--	--	--	--
South Africa	--	--	--	--	--	--	--	5
Sweden	--	--	--	--	--	--	--	26
Taiwan	--	--	--	--	--	--	32	97
United Kingdom	--	--	--	5	--	--	--	12
Venezuela	--	--	--	--	--	--	--	28
Vietnam	--	209	--	--	--	--	40	110
Total	6,110	22,500	57	5,560	46	3,220	280	2,960

-- Zero.

¹Data rounded to no more than three significant digits; may not add to totals shown.

²Includes manganese-aluminum, some other alloys, and waste and scrap.

³Less than 1/2 unit.

Note: Exports of ferromanganese with more than 2% carbon totaled 45 metric tons, all of which went to Chile, to give a year-to-date total of 23,300 metric tons

Source: U.S. Census Bureau.

TABLE 8
U.S. FOREIGN TRADE IN SELECTED MANGANESE CHEMICALS IN NOVEMBER 2007, BY CLASS¹

Class	Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)	Year to date		
				Gross weight (metric tons)	Value ² (thousands)	Principal sources and destinations: gross weight (metric tons); value ² (thousands)
Imports for consumption:						
Manganese oxides other than dioxide	211	\$165	Mexico 193; \$81	4,570	\$2,880	Mexico 2,810; \$1,280
Manganites, manganates, and other permanganates	--	--	--	--	--	--
Potassium permanganate	94	224	Czech Republic 44; \$105	1,000	2,400	India 500; \$1,210
Sodium permanganate	11	22	China 11; \$22	250	443	China 215; \$371
Sulfates, basket category, including manganese sulfate	1,540	1,230	Mexico 944; \$602	35,300	19,600	China 1,650; \$7,660
Exports:						
Manganese dioxide	783	871	Canada 547; \$308	8,180	7,670	Canada 4,430; \$2,410
Manganese oxides other than dioxide	1,770	1,360	Canada 1,270; \$530	16,500	11,000	Canada 12,000; \$4,740
Manganites, manganates, and other permanganates	5	13	Canada 5; \$13	68	173	Canada 59; \$145
Potassium permanganate	172	944	Belgium 109; \$193	2,220	5,720	Belgium 1,090; \$1,930
Sodium permanganate	61	151	China 40; \$111	1,300	3,270	Spain 398; \$1,010
Sulfates, basket category, including manganese sulfate	2,210	2,800	Canada 1,920; \$1,550	24,700	20,100	Canada 17,700; \$11,500

-- Zero.

¹Data are rounded to no more than three significant digits.

²For imports, Customs value; for exports, free alongside ship value.

Source: U.S. Census Bureau.